

INTERNATIONAL SEARCH REPORT

PCT/GB2004/003541

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/58 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/001326 A (TUMBLEWEED COMM CORP) 3 January 2003 (2003-01-03) cited in the application page 9, line 9 - page 10, line 17 page 18, line 7 - page 22, line 10 figure 3 figure 6a figure 6b	1-16
X	US 2003/135737 A1 (BOUTHORS NICOLAS) 17 July 2003 (2003-07-17) cited in the application abstract paragraph '0037! - paragraph '0053! figure 2 ----- -/-	1-16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *A* document member of the same patent family

Date of the actual completion of the international search

15 November 2004

Date of mailing of the international search report

24/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 889 943 A (TSAI WARREN ET AL) 30 March 1999 (1999-03-30) abstract column 20, line 10 - line 63 figure 15</p>	1-16

INTERNATIONAL SEARCH REPORT

on patent family members

PCT/GB2004/003541

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 03001326	A	03-01-2003	US	2002169954 A1	14-11-2002
			WO	03001326 A2	03-01-2003
US 2003135737	A1	17-07-2003	FR	2834404 A1	04-07-2003
			EP	1324563 A2	02-07-2003
US 5889943	A	30-03-1999	US	5623600 A	22-04-1997
			AU	2556697 A	07-11-1997
			EP	0954794 A2	10-11-1999
			JP	2000517440 T	26-12-2000
			WO	9739399 A2	23-10-1997
			AU	2001997 A	17-04-1997
			DE	19680539 T0	11-12-1997
			EP	0852762 A1	15-07-1998
			GB	2309561 A	30-07-1997
			JP	11513153 T	09-11-1999
			WO	9712321 A1	03-04-1997